REVISED VERSION

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 16 June 2005 (16.06.2005)

PCT

(10) International Publication Number WO 2005/054538 A1

C23C 14/08, (51) International Patent Classification7: 14/56, 30/00, H01L 31/02, H01M 6/00

(21) International Application Number:

PCT/SE2004/001810

(22) International Filing Date: 3 December 2004 (03.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0303281-0

5 December 2003 (05.12.2003)

- (71) Applicant (for all designated States except US): SAND-VIK AB (publ) [SE/SE]; S-811 81 Sandviken (SE).
- (75) Inventor/Applicant (for US only): SCHUISKY, Mikael [SE/SE]; Mossvägen 25 C, S-811 34 Sandviken (SE).
- (74) Agent: MELIN, Linda; Sandvik AB, Intellectual Property, S-811 81 Sandviken (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,

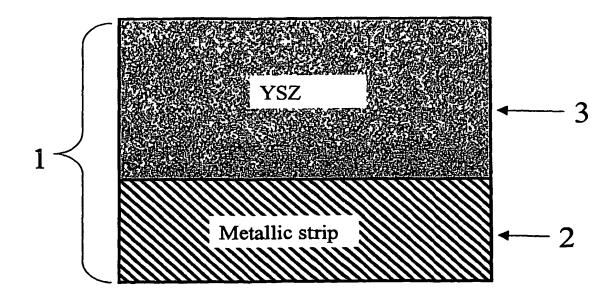
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the revised international search 28 July 2005 report:

[Continued on next page]

(54) Title: A STEEL STRIP COATED WITH ZIRCONIA



(57) Abstract: A flexible metallic strip product comprises a ferritic chromium strip steel material (2) having a coating (3; 6; 8) of an electrically insulating layer of zirconia stabilized with yttrium, said coating being intended to receive a second coating (7) comprising an electrically conducting layer. This coating has turned out to be very efficient as an electrically insulating layer in flexible solar cells and solid state thin film batteries because it has practically the same thermal expansion coefficient as the steel substrate.

WO 2005/054538 A1



(15) Information about Correction: see PCT Gazette No. 30/2005 of 28 July 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.